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F2A55-M LK

Digital power design for APUs with graphics performance boost

- DIGI+ VRM - Digital Power Design for the APU
- AI Suite II - One stop Access to Innovative ASUS Features
- Network iControl - Real-time Network Bandwidth Control
- UEFI BIOS - Flexible & Easy BIOS Interface
- **Windows 8 Ready – Assured Compatibility**

APU,FCH and Graphics features

AMD® A-series Accelerated Processor with AMD Radeon™ HD 7000 Series Graphics

This motherboard supports AMD® A-series Accelerated Processor with AMD Radeon™ HD 7000 Series Graphics. This revolutionary APU (Accelerated Processing Unit) combines processing power and advanced DirectX 11 graphics in one small, energy-efficient design to enable accelerated performance and an industry-leading visual experience. It features Dual-channel DDR3 memory support and accelerates data transfer rate up to 5GT/s.

AMD® A55 FCH (Hudson D2)

AMD® A55 FCH (Hudson D2) is designed to support up to 5GT/s interface speed and PCI Express™ 2.0 x 16(at x4 speed)graphics.

ASUS Exclusive Features

DIGI+ VRM

DIGI+ POWER CONTROL: Digital Power Design for the APU
ASUS motherboards using the AMD® A55 chipset employ precise digital voltage regulation for the APU, called DIGI+ VRM (Voltage Regulation Modules) digital power design. The APU voltage is adjusted via either carefully developed automated modes, or by using user-defined profiles. The effect is that DIGI+ VRM technology ensures greater energy efficiency and the most precise power delivery. Boosted by world-renowned ASUS quality, it creates an ideal computing platform for a diverse range of applications, from gaming to multimedia or office work and heavy multitasking. Engineered and tested to assure unmitigated performance, ASUS A55 boards with DIGI+ VRM remain efficient and accurate, for reliable application in every scenario.

* DIGI+ VRM functions also available in FM2 socket compatible CPUs

UEFI BIOS (EZ mode)

Flexible and Easy BIOS InterfaceASUS UEFI BIOS offers the first mouse-controlled graphical BIOS designed with selectable modes, providing a user-friendly interface that goes beyond traditional keyboard-only controls. It also natively supports fully-utilized hard drives larger than 2.2TB in 64-bit operating systems.

ASUS Exclusive Interface
EZ Mode displays frequently-accessed info. Users can choose system performance settings and drag and drop boot priorities. Advanced Mode for performance enthusiasts includes detailed DRAM settings via a dedicated memory info page for complete insight.

New Upgrade! Quick and Easy Info for Enhanced System Control
- F12 BIOS snapshot hotkey for sharing UEFI setup info and troubleshooting
- New F3 Shortcut for most accessed info
- ASUS DRAM SPD (Serial Presence Detect) Information for accessing memory info, detecting faulty DIMMs and helping with difficult POST situations

Network iControl

Real-time Network Bandwidth Control

With a single-click on/off button, the application currently in use has its data and network bandwidth prioritized over other programs. Moreover, you can prioritize your favorite software easily by configuring profiles through the intuitive user interface. Within the profile, programs can be pre-scheduled to run in a specific time period to avoid network congestion and long-waits on downloads. Auto PPPoE network connection provides a one-step setup for enhanced online convenience. Overall, it's an intuitive network bandwidth control center.

AI Suite II

One-stop Access to Innovative ASUS Features

With its user-friendly interface, ASUS AI Suite II consolidates all exclusive ASUS features into one simple-to-use package. It allows users to supervise overclocking, energy management, fan speed, voltage, and sensor readings. This all-in-one software offers diverse and easy to use functions, with no need to switch back and forth between different utilities.

TurboV

Easy, Real-Time O.C. Tunings

Feel the adrenaline rush of real-time OC-now a reality with the ASUS TurboV. This easy OC tool allows you to overclock without exiting or rebooting the OS; and its user-friendly interface makes overclock with just a few clicks away. Moreover, the ASUS OC profiles in TurboV provides the best O.C. settings in different scenarios.

Fan Xpert

ASUS Fan Xpert intelligently allows you to adjust the CPU and chassis fan speeds according to different ambient temperatures caused by different climate conditions in different geographic regions and your PC's loading. The built-in variety of useful profiles offer flexible controls of fan speed to achieve a quiet and cool environment.

GPU Boost

Go to the Limit with iGPU Level Up!

GPU Boost accelerates the integrated GPU for extreme graphics performance. The user-friendly interface facilitates flexible frequency adjustments. It easily delivers stable system-level upgrades for every use.

ASUS Anti-Surge Protection

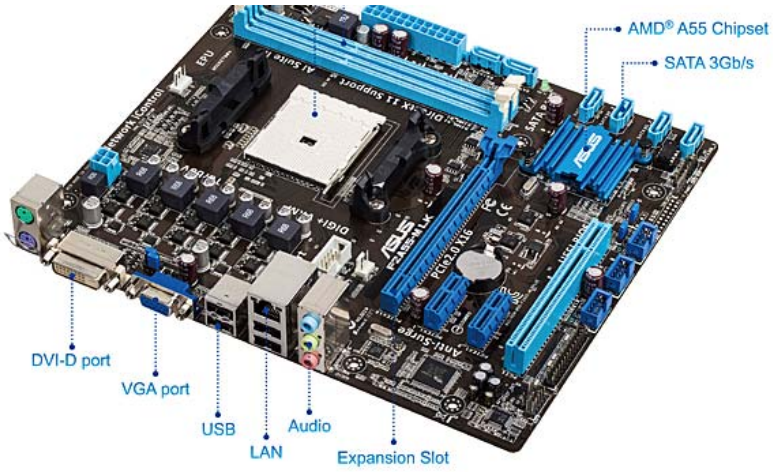
Anti-Surge Protection Design detects overvoltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the overvoltage supply to protect the system.

1. Real-time over voltage detection.
2. Active protection against potential damage to your motherboards and systems.

ESD

Protect Your Computer with ESD Guards. Electrostatic discharge (ESD) conditions can happen while plugging or unplugging any USB peripherals-causing damage to the computer. ASUS ESD Guards clamp the ESD voltage and shunt the majority of the ESD current away for a more reliable computing environment.

F2A55-M LK Product Overview



RoHS

Green ASUS and ErP Ready

The motherboard is European Union´s Energy-related Products (ErP) ready, and ErP requires products to meet certain energy efficiency requirements in regards to energy consumptions. This is in line with ASUS vision of creating environment-friendly and energy-efficient products through product design and innovation to reduce carbon footprint of the product and thus mitigate environmental impacts.

Specifications

CPU	AMD Socket FM2 Athlon™/A- Series Processors Supports CPU up to 4 cores Supports AMD® Turbo Core 3.0 Technology
Chipset	AMD A55 FCH (Hudson D2)
Memory	2 x DIMM, Max. 32GB, DDR3 2400(O.C.)/2250(O.C.)/2200(O.C.)/2133(O.C.)/2000(O.C.)/1866/1600/1333/1066 MHz Non-ECC, Un-buffered Memory Dual Channel Memory Architecture Support AMD Memory Profile (AMP) memory * The Max. 32GB memory capacity can be supported with DIMMs of 16GB (or above). ASUS will update QVL once the DIMMs are available on the market. * Refer to www.asus.com or user manual for the Memory QVL (Qualified Vendors Lists).
Graphic	Integrated AMD Radeon™ HD 7000 Series Graphics in A-series APU - Supports DVI with max. resolution 2560 x 1600 @ 60 Hz - Supports RGB with max. resolution 1920 x 1600 @ 60 Hz Maximum shared memory of 2048 MB AMD® Dual Graphics technology support *1 Supports DirectX 11
Expansion Slots	1 x PCIe 2.0 x16 2 x PCIe 2.0 x1 1 x PCI
Storage	6 x SATA 3Gb/s port(s), blue Support Raid 0, 1, 10, JBOD
LAN	Realtek® 8111F, 1 x Gigabit LAN Controller(s)
Audio	Realtek® ALC887 8-Channel High Definition Audio CODEC
USB Ports	**AMD A55 FCH (Hudson D2) chipset :** 10 x USB port(s) (4 at back panel, , 6 at mid-board)
Special Features	**ASUS EPU :** - EPU **ASUS Hybrid Phase :** - 3 +2 Phase Power Design **ASUS Digital Power Design :** - ASUS DIGI+ VRM Utility **TurboV** **ASUS Exclusive Features** : - AI Suite II - Anti-Surge - ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface - Network iControl **ASUS Quiet Thermal Solution** : - ASUS Fan Xpert **ASUS EZ DIY :**

	- ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 - ASUS MyLogo 2
Back I/O Ports	1 x PS/2 keyboard (purple) 1 x PS/2 mouse (green) 1 x DVI 1 x D-Sub 1 x LAN (RJ45) port(s) 4 x USB 2.0 3 x Audio jack(s)
Internal I/O Ports	3 x USB 2.0 connector(s) support(s) additional 6 USB 2.0 port(s) 1 x COM port(s) connector(s) 6 x SATA 3Gb/s connector(s) 1 x CPU Fan connector(s) 1 x Chassis Fan connector(s) 1 x S/PDIF out header(s) 1 x 24-pin EATX Power connector(s) 1 x 4-pin ATX 12V Power connector(s) 1 x parallel port connector(s) 1 x Front panel audio connector(s) (AAFP) 1 x Internal speaker connector(s) 1 x System panel(s)
Accessories	User's manual I/O Shield 2 x SATA 3Gb/s cable(s)
BIOS	64 Mb Flash ROM, UEFI BIOS, PnP, DMI v2.0, WfM2.0, SM BIOS V2.6, ACPI V2.0a
Support Disc	Drivers, ASUS utilities, ASUS Update, Anti-virus software (OEM version)
Form Factor	uATX Form Factor 9.6 inch x 8.2 inch (24.4 cm x 20.8 cm)
Note	* The AMD®Turbo Core Technology 3.0 Support depends on the APU types *1 Refer to http://www.amd.com/us/products/technologies/dual-graphics/Pages/dual-graphics.aspx#3 for the discrete GPUs which support Dual Graphics technology